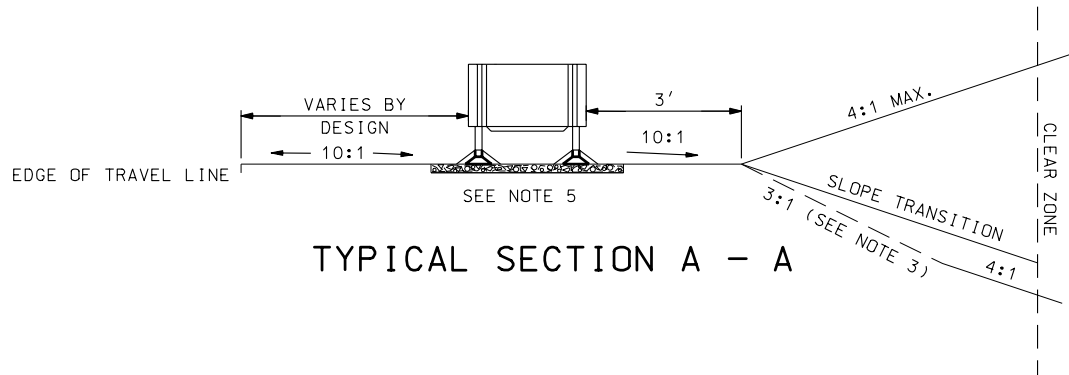
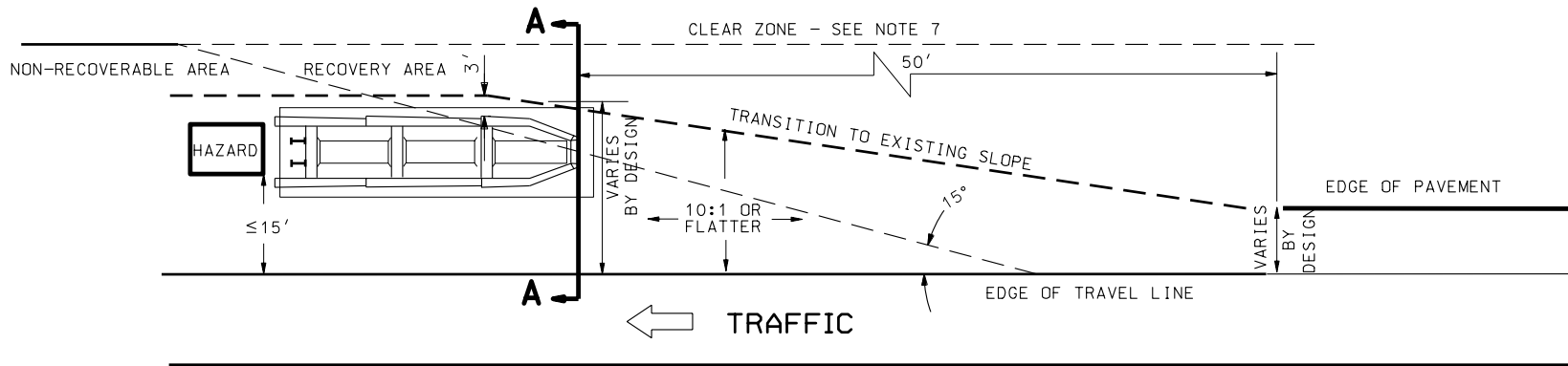
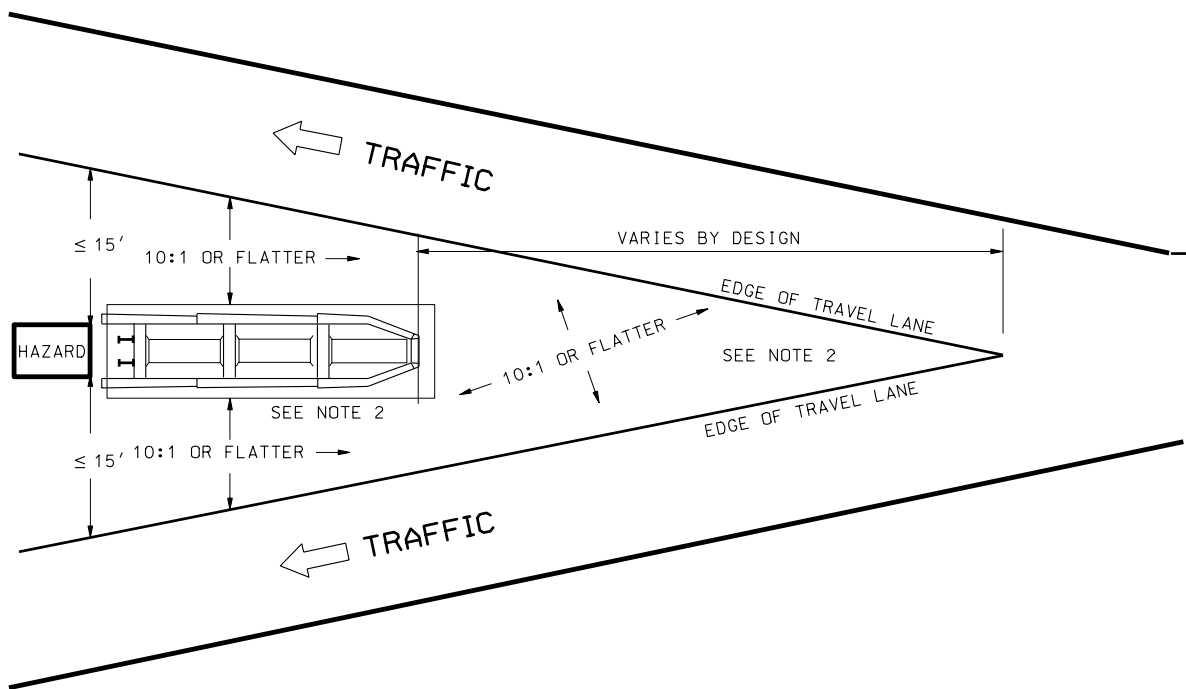


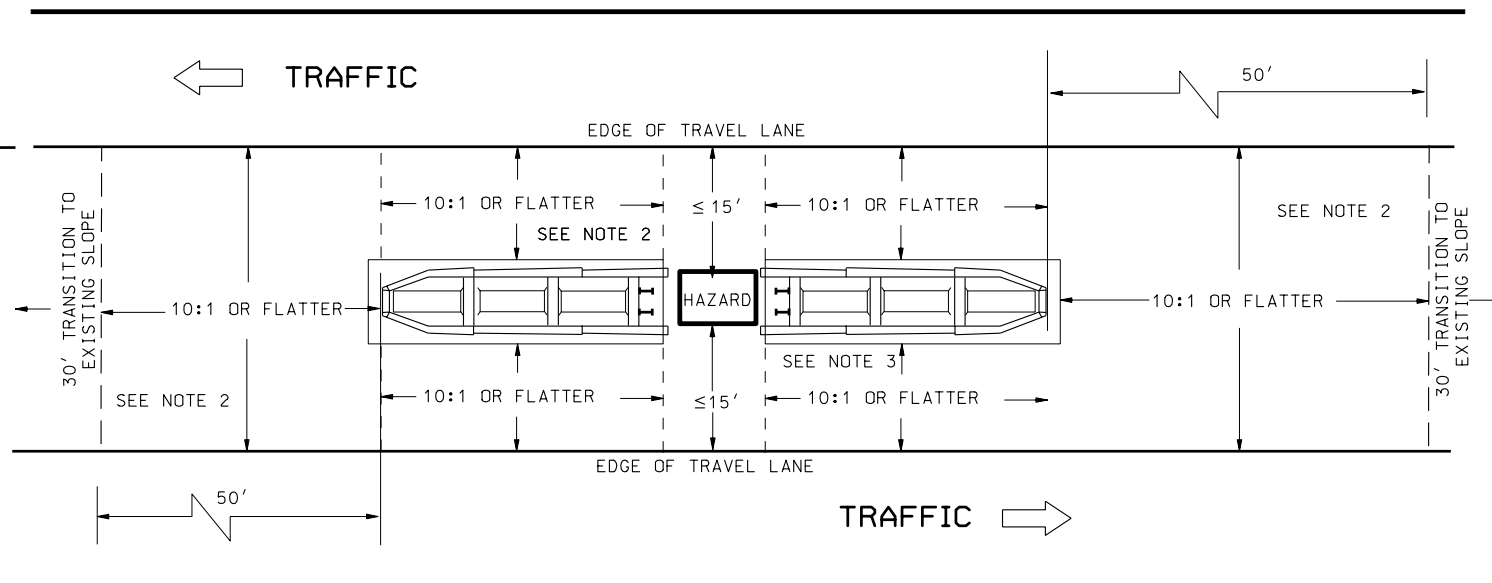
## SHOULDER APPLICATION



GORE APPLICATION AREA



## MEDIAN APPLICATION



**NOTES:**

1. CRASH CUSHION TYPE A: QUADGUARD, MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, TO PROTECT HAZARDS FROM 37 INCHES TO 90 INCHES.

CRASH CUSHION TYPE B: QUADGUARD, MANUFACTURED BY ENERGY  
ABSORPTION SYSTEMS, TO PROTECT HAZARDS UP TO 36 INCHES.

CRASH CUSHION TYPE D: QUADGUARD ELITE AND QUADGUARD LMC,  
MANUFACTURED BY ENERGY ABSORPTION SYSTEMS, AND REACT 350,  
MANUFACTURED BY ROADWAY SAFETY SERVICES.  
TYPE D SYSTEMS PROTECT HAZARDS UP TO 90 INCHES IN WIDTH,  
TYPE D SYSTEMS ARE USED WHERE ONE OR MORE  
IMPACTS PER YEAR ARE ANTICIPATED, OR WHEN REPAIR HISTORY  
INDICATES TWO OR MORE IMPACTS OVER A THREE YEAR PERIOD.

2. ALL APPLICATIONS REQUIRE THE USE OF A 10:1 SLOPE OR FLATTER TO THE FRONT AND SIDE APPROACHES. USE A 10:2 OR FLATTER SLOPE AT THE REAR OF THE SYSTEM WHEN TRAFFIC ALSO APPROACHES FROM THE REAR OF THE SYSTEM.
3. USE A 4:1 OR FLATTER FILL SLOPE AND A RECOVERY AREA IF IMPRACTICAL, USE A MAXIMUM 3:1 FILL SLOPE AND A RECOVERY AREA ESTABLISHED AT THE TOE OF 3:1 FILL SLOPE. WHEN USED WITH A CUT SLOPE, A 4:1 OR FLATTER CUT IS REQUIRED IN THE RECOVERY AREA.
4. USE A TRANSITION ELEMENT, AS PER MANUFACTURE'S SPECIFICATIONS, WHEN TRAFFIC APPROACHES THE REAR OF SYSTEM.
5. USE MANUFACTURE'S SPECIFICATIONS FOR PAD AND BACKUP REQUIREMENTS.
6. INSTALL PROPER MARKINGS AS PER STD DWG CC 1.
7. MAINTAIN AASHTO CLEAR ZONE REQUIREMENTS.

[illegible]

UTAH DEPARTMENT OF TRANSPORTATION  
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION  
SALT LAKE CITY, UTAH

|  |                      |
|--|----------------------|
| CHAIRMAN STANDARDS COMMITTEE<br>APPROVED | JULY 03,2002<br>DATE |
| DEPUTY DIRECTOR                          | JULY 03,2002<br>DATE |

DETAIL FOR  
PLACEMENT  
CRASH CUSHIONS  
TYPE A, B & D

STANDARD DRAWING TITLE

STD DWG  
CC 4